

Application No.: 10/553,576
Filing Date: October 17, 2005

AMENDMENTS TO THE CLAIMS

1.-17. (Cancelled)

18. (Currently amended) A method for detecting a mutation comprising performing a melting curve analysis for a nucleic acid having a single nucleotide polymorphism site by using a nucleic acid probe having a 3' terminal cytosine labeled with a fluorescent dye and measuring fluorescence of the fluorescent dye, and detecting the mutation on the basis of the result of the melting curve analysis, wherein the single nucleotide polymorphism is a mutation at the 3243rd position in a mitochondrial DNA, and the nucleic acid probe consists of the nucleotide sequence of SEQ ID NO: 21 or 22,

wherein a region containing the single nucleotide polymorphism site in a nucleic acid contained in a sample is amplified to obtain the nucleic acid showing the single nucleotide polymorphism, and

wherein the amplification is performed by a method of using a DNA polymerase in the presence of a nucleic acid probe.

19-24. (Cancelled)